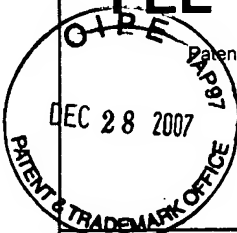


FEE TRANSMITTAL

Patent fees are subject to annual revision.



Complete If Known

Application Number	10/728,850
Filing Date	8 December 2003
First Named Inventor	HYUNG-BOK LEE, et al.
Examiner Name	A. BOATENG
Group/Art Unit	2838
Attorney Docket No.	P56980

TOTAL AMOUNT OF PAYMENT

(\$)**180.00**

METHOD OF PAYMENT (check one)

1. ☒ Payment Enclosed:

(CHECK #53531)

☒ Check ☐ Credit Card ☐ Money Order ☐ Other

☐ Charge Any Additional Fee Required Under 37 C.F.R. §1.16 and 1.17.

☐ Applicant claims small entity status. See 37 CFR 1.27

2. ☒ The Commissioner is hereby authorized to charge any deficiency and credit any over payments to:

Deposit Account Number: **02-4943**

FEE CALCULATION

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
EXTENSION OF TIME FEES					
1251	120	2251	60	Extension for reply within first month	\$
1252	460	2252	230	Extension for reply within second month	\$
1253	1050	2253	525	Extension for reply within third month	\$
1254	1640	2254	820	Extension for reply within fourth month	\$
1255	2230	2255	1115	Extension for reply within fifth month	\$
APPEAL					
1401	510	2401	255	Notice of Appeal	\$
1402	510	2402	255	Filing a brief in support of an appeal	\$
1403	1030	2403	515	Request for oral hearing	\$
CLAIMS					
1201	210	2201	105	Independent claims in excess of 3	\$
1202	50	2202	25	claims in excess of 20	\$
Other Fee (specify) _____					\$
Other Fee (specify) _____					\$
Other Fee (specify) _____					\$

SUBTOTAL: LEFT COLUMN

\$0.00

FEE CALCULATION

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
MISCELLANEOUS					
1801	\$810	2801	\$405	Request for continued examination (RCE)	\$
1806	\$180			Submission of an IDS	\$180.00
1814	\$130	2814	\$65	Statutory disclaimer	\$
8021	\$40			Recordation of assignment per property	\$
TRADEMARK					
6001/7001			\$375	Application for registration, per class (paper)	\$
6002/7002			\$100	Amendment to Allege Use, per class	\$
6003/7003			\$100	Statement of Use, per class	\$
6004/7004			\$150	Request for six-month extension of time, per class	\$
6205/7205			\$100	\$8 affidavit, per class	\$
6208/7208			\$200	\$15 affidavit, per class	\$
6201/7201			\$400	Application for renewal, per class	\$
6403/7403			\$100	Ex parte appeal, per class	\$
PETITION					
1462			\$400	Petitions to Director (Group I)	\$
1463			\$200	Petitions to Director (Group II)	\$
1464			\$130	Petitions to Director (Group III)	\$
1452	\$510	2452	\$255	Petitions to revive unavoidably abandoned application	\$
1453	\$1540	2453	\$770	Petitions to revive unintentionally abandoned application	\$
PATENT MAINTENANCE					
1551	\$930	2551	\$465	Due at 3.5 years	\$
1552	\$2360	2552	\$1180	Due at 7.5 years	\$
1553	\$3910	2553	\$1955	Due at 11.5 years	\$
Other Fee (specify) _____					\$
Other Fee (specify) _____					\$
Other Fee (specify) _____					\$

SUBTOTAL: RIGHT COLUMN

\$180.00

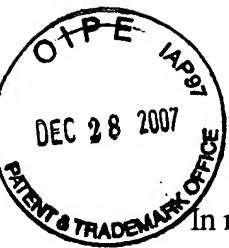
SUBMITTED BY

Complete (if applicable)

Typed or Printed Name	Robert E. Bushnell, Esq.	Reg. Number	27,774
Signature		Date	28 December 2007
		Deposit Account User ID	

REB/rd

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PATENT
P56980

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

HYUNG-BOK LEE, *et al.*

Serial No.: 10/728,850

Examiner: A. Boateng

Filed: 8 December 2003

Art Unit: 2838

For: COMPACT SAFETY DEVICE FOR A POUCH-TYPE SECONDARY BATTERY
UNIT HAVING MANY INDIVIDUAL BATTERIES

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §1.56, and §§1.97 and 1.98 as amended, Applicant cites, describes, and provides copies of the following art references. Under 37 C.F.R. §1.98(a)(2) however, copies of U.S. patent reference(s) are not provided.

FOREIGN PATENT REFERENCE(S):

1. Japanese Patent Publication No. 2000-156208 to Hatasawa, *et al.*, entitled *NONAQUEOUS ELECTROLYTE BATTERY*, published on 6 June 2000.

Folio: P56980
Date: 12/28/07
I.D.: REB/rd

12/31/2007 JADD01 00000113 10728850

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2. Japanese Patent Publication No. 2001-256933 to Mita, *et al.*, *BATTERY AND BATTERY PACK*, published on 21 September 2001.
3. Japanese Patent Publication No. 2003-257393 to Takahashi, entitled *ELECTROCHEMICAL DEVICE*, published on 12 September 2003.
4. Japanese Patent Publication No. 61-116771 to Suzuki, *et al.*, entitled *SEALED STORAGE BATTERY*, published on 4 June 1986.
5. International Patent Publication No. WO 00/41253 to Nortoft *et al.*, entitled *ARRANGEMENT OF ELECTROCHEMICAL CELLS AND CIRCUIT BOARD*, published on 13 July 2000.

OTHER DOCUMENT:

Office action from the Japanese Patent Office issued in Applicant's corresponding Japanese Patent Application No. 2003-401571 dated 11 December 2007.

DISCUSSION

As cited in the Office action issued by the Japanese Patent Office of on 11 December 2007 in applicant's corresponding Japanese Patent Application No. 2003-401571 corresponding to applicant's above-captioned U.S. Patent Application, **Hatasawa, *et al.* JP'208** discloses that a control circuit 5 is held on a thermally-welded part 2a of an armoring material and stabilized against vibration and shock. A space for mounting the control circuit 5 is effectively created by using the armoring material wherein a space capable of receiving a battery element is previously formed, for instance, by deep-drawing, so that the space can be utilized more effectively. Welded parts 2b, 2c are kept in a folded form by utilizing plastic deformation in themselves, for instance, the plastic deformation of metal foil constituting the armoring material without bonding them with an adhesive

or the like. Thereby, a surface area is kept large, so that heat radiation capability can be improved and a cycle characteristic can also be improved.

Mita, et al. JP'933 discloses that battery elements 1 are interposed between an armored material 2, 3, whose peripheral portions 2a, 3a are mutually joined to form joined pieces 4A, 4F. The battery is formed by folding the joined pieces 4A, 4F and sticking to sides of cover portion 4B that covers the battery elements 4 with an adhesive 5. Leads 21 are drawn out through a joint face of the armored material 2, 3 at the joined piece 4F.

Takahashi, JP'393 discloses that this electrochemical device is constituted such that a plurality of electrochemical device units in which a power generating element is housed in the outer case made of a laminate film of resin and metal are installed, at least two electrochemical device units are stacked so that output terminals having different polarities are faced, and a space formed with a bonded part from which the output terminals of the electrochemical device units are taken out is made thicker than the thickness of the electrochemical device unit.

Suzuki, et al. JP'771 discloses that in a unit storage battery 3 to be accommodated in an outer container 2 comprising synthetic resin cases 1a and 1b, leads 6a, 6b are extruded from a part of a sealing part 5 of cover 4 and a safety valve 7 is installed in the sealing part between leads. Leads of adjacent batteries are connected in series with a connector 8 and a thermostat 9 and leads at both ends are connected with terminals 10a, 10b and a lead wire 11. The thermostat 9 is made of bimetal and a movable contact plate and arranged in the space formed in the upper space between unit storage batteries. During charge, when heat generation occurs in the unit storage battery, the thermostat is operated to open the charging circuit before temperature is increased to dangerous range at which the cover is damaged.

Nortoft, et al. WO'253 discloses that the application describes a cell unit which includes at least two flat electrochemical cells (1', 1'', 1''') and a circuit board (5), the cells being folded onto one

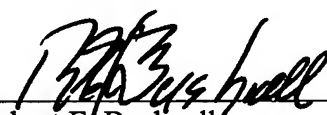
or both sides of the circuit board whereby the circuitry on the circuit board is protected. Preferably, the cells and the circuit board have the same lengths and widths. The cells may be provided on two or more edges of the circuit board and optionally two cells are connected at the same edges on the board. A means of connecting electrochemical cells to a circuit board is also described wherein protruding parts (14) of the cell, at the terminal end, are bonded to the circuit board.

The citation of the foregoing references is not intended to constitute an assertion that other or more relevant art does not exist. Accordingly, the Examiner is requested to make a wide-ranging and thorough search of the relevant art.

Pursuant to 37 C.F.R. §1.97(c)(2), the fee set forth under 37 C.F.R. §1.17(p) of \$180.00 accompanies this Information Disclosure Statement. Should the check become lost, be deficient in payment, or should other fees be incurred, the Commissioner is authorized to charge Deposit Account No. 02-4943 of Applicant's undersigned attorney in the amount of such fees.

Pursuant to 37 CFR § 1.97(d), the undersigned attorney hereby certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application not more than three(3) months prior to the filing of the statement.

Respectfully submitted,


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Folio: P56980
Date: 28 December 2007
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